



## HEALTH AND SAFETY PRODUCT INFORMATION

**Product:** Adhesion promoter

**Date:** 1<sup>st</sup> March, 2009

**Product code:** 472828

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1.

Name and Address
<b>INDASA Abrasives (UK) Limited, Viking Works, Greenstead Road, Colchester Essex CO1 2ST</b> Tel : 01206 870366 Fax : 01206 860525 Email : office@indasa.co.uk

2.

Composition/Information on ingredients																				
<p>· Dangerous components:</p> <table><tr><td>Ethylacetat <b>11-36-66-67</b></td><td><b>25-50%</b></td><td>CAS: 106-97-8</td><td>EINECS: 203-448-7</td><td><b>Xi, F; R</b></td></tr><tr><td>butane (containing = 0,1 % butadiene (203-450-8)) <b>F+; R 12</b></td><td><b>10-25%</b></td><td>CAS: 123-86-4</td><td>EINECS: 204-658-1</td><td></td></tr><tr><td>n-butyl acetate <b>F; R 11-20</b></td><td><b>10-25%</b></td><td>CAS: 108-88-3</td><td>EINECS: 203-625-9</td><td><b>R 10-66-67 Xn,</b></td></tr><tr><td>toluene</td><td><b>2.5-10%</b></td><td></td><td></td><td></td></tr></table> <p>· Additional information: For the wording of the listed risk phrases refer to section 16.</p>	Ethylacetat <b>11-36-66-67</b>	<b>25-50%</b>	CAS: 106-97-8	EINECS: 203-448-7	<b>Xi, F; R</b>	butane (containing = 0,1 % butadiene (203-450-8)) <b>F+; R 12</b>	<b>10-25%</b>	CAS: 123-86-4	EINECS: 204-658-1		n-butyl acetate <b>F; R 11-20</b>	<b>10-25%</b>	CAS: 108-88-3	EINECS: 203-625-9	<b>R 10-66-67 Xn,</b>	toluene	<b>2.5-10%</b>			
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3.

Hazards identification
<p>· Hazard description:</p> <p>Xi Irritant F+ Extremely flammable</p> <p>· Information concerning particular hazards for human and environment: Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided. The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Warning! Pressurized container. Has a narcotizing effect. R 12 Extremely flammable. R 36 Irritating to eyes. R 66 Repeated exposure may cause skin dryness or cracking. R 67 Vapours may cause drowsiness and dizziness. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even when empty</p> <p>Material Safety Data Sheet According to 91/155 EEC</p> <p>100.0 % by mass of the contents are flammable Keep out of the reach of children</p> <p>· Classification system:</p>

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4.

#### First-Aid measures

- General information: Take affected persons out into the fresh air.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

5.

#### Fire-Fighting measures

- Suitable extinguishing agents: CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water, Water with full jet
- Protective equipment: Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.

6.

#### Accident release measures

- Person-related safety precautions:  
Keep away from ignition sources.  
Ensure adequate ventilation  
Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection:  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:  
Dispose of the material collected according to regulations.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- Additional information: See Section 13 for disposal information.

7.

#### Handling and storage

- **Handling:**
  - Information for safe handling:  
Keep away from heat and direct sunlight.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
Open and handle receptacle with care.
  - Information about fire - and explosion protection:  
Fumes can combine with air to form an explosive mixture.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
  - Requirements to be met by storerooms and receptacles:  
Store in a cool location.  
  
Observe official regulations on storing packagings with pressurised containers.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:  
Keep container tightly sealed.  
Do not seal receptacle gas tight.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.

8.

Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace:

Ethylacetat

OES Short-term value: 400 ppm

Long-term value: 200 ppm

Rev

106-97-8 butane (containing = 0,1 % butadiene (203-450-8))

OES Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm

Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm

74-98-6 propane

OES Asphyxiant

123-86-4 n-butyl acetate

OES Short-term value: 966 mg/m<sup>3</sup>, 200 ppm

Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

108-88-3 toluene

OES Short-term value: 574 mg/m<sup>3</sup>, 150 ppm

Long-term value: 191 mg/m<sup>3</sup>, 50 ppm

Sk

- Additional information: The lists valid during the making were used as basis.

- Personal protective equipment:

- General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- Respiratory protection: Not required.

- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Natural rubber, NR

- Eye protection:

Tightly sealed goggles

- Body protection: Light weight protective clothing

9.

#### Physical and chemical properties

##### Physical and chemical properties

###### · General Information

Form: Aerosol

Colour: Colourless

Odour: Characteristic

###### · Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Not applicable, as aerosol.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: In use, may form flammable/explosive vapour-air mixture.

· Explosion limits:

Lower: 1.2 Vol %

Upper: 11.5 Vol %

· Vapour pressure at 20°C: 8300 hPa

· Density at 20°C: 0.904 g/cm<sup>3</sup>

· Solubility in / Miscibility with water: Not miscible or difficult to mix.

· Solvent content:

Organic solvents: 98.5 %

VOC-EU 57.6 %

904.4 g/l

· Solids content: 1.5 %

10.

#### Stability and reactivity

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Dangerous reactions No dangerous reactions known.

· Dangerous decomposition products: No dangerous decomposition products known.

11.

#### Toxicological information

##### 1 Toxicological information

· Acute toxicity:

· Primary irritant effect: on the skin: No irritant effect. on the eye: Irritating effect.

· Sensitisation: No sensitising effects known.

12.

#### Ecological information

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13.

#### Disposal considerations

· Product:

· Recommendation

Must not be disposed together with household waste. Do not allow product to reach sewage system.

· European waste catalogue

08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

15 01 04 metallic packaging

· Uncleaned packaging:

· Recommendation: Non contaminated packaging may be recycled.

14.

#### Transport information

##### 14 Transport information

- Land transport ADR/RID (cross-border)
- ADR/RID class: 2 5F Gases.
- Danger code (Kemler): 23
- UN-Number: 1950
- Packaging group: -
- Hazard label 2.1
- Description of goods: 1950 AEROSOLS
- **Maritime transport IMDG:**
- IMDG Class: 2.1
- UN Number: 1950
- Label 2.1
- Packaging group: -
- EMS Number: F-D,S-U
- Marine pollutant: No
- Proper shipping name: AEROSOLS
- **Air transport ICAO-TI and IATA-DGR:**
- ICAO/IATA Class: 2.1
- UN/ID Number: 1950
- Label 2.1
- Packaging group: -
- Proper shipping name: AEROSOLS, flammable

15.

#### Regulatory information

- Labelling according to EU guidelines:  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Code letter and hazard designation of product:  
Xi Irritant  
F+ Extremely flammable
- Risk phrases:  
12 Extremely flammable.  
36 Irritating to eyes.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.
- Safety phrases:  
2 Keep out of the reach of children.  
9 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
25 Avoid contact with eyes.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
33 Take precautionary measures against static discharges.  
43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.  
46 If swallowed, seek medical advice immediately and show this container or label.  
51 Use only in well-ventilated areas.  
60 This material and its container must be disposed of as hazardous waste.  
64 If swallowed, rinse mouth with water (only if the person is conscious).
- Special labelling of certain preparations:  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even when empty  
100.0 % by mass of the contents are flammable  
Keep out of the reach of children
- National regulations:
- Information about limitation of use: Employment restrictions concerning juveniles must be observed.
- Technical instructions (air):  
Class Share in %  
NK 100.0
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16.

Other information		
<p>This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.</p> <p>· Relevant R-phrases</p> <p>10 Flammable.</p> <p>11 Highly flammable.</p> <p>12 Extremely flammable. 20 Harmful by inhalation.</p> <p>36 Irritating to eyes.</p> <p>66 Repeated exposure may cause skin dryness or cracking.</p> <p>67 Vapours may cause drowsiness and dizziness.</p>		
Creation date	01.05.09	Production Management
Replace sheet of		Phillip Blowers
Text of R-Statements listed in ingredients		
<p>This leaflet is for general guidance only and may contain inappropriate information under particular conditions. Samples will be provided on request to enable customers to satisfy themselves as to the suitability of the product for any specific purpose and to assess the product under their own working conditions.</p>		